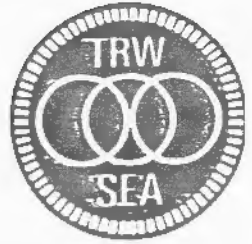




CROSSTALK

News Bulletin of the TRW Amateur Radio Club



Volume 96 Number 3

April 1996

President's Corner

1996 is here and so am I as the President of your Club. It looks like it will be an interesting year with a new emergency comm van, Field Day back up in Friendship park and changes in the people that will guide the club. Fortunately most of the chairpersons are the same from last year so the new leaders will have some guidance in keeping the club on track and moving forward.

We do have our job cut out for us, last year was a very successful year with high attendance for the swap meets, ECT people to help out during the swap meets, a successful Field Day, Shuttle contacts from the "S" shack, the emergence of the Bob and Ray Show, assisting Manhattan Beach with their events, and a fun and very successful banquet. There were a lot of things that we did last year and some things that we wished we had done. Hopefully we will be able to do the things we didn't do last year like put up the S building antenna tower. This year we will have some new things that we didn't have last year such as a new Emergency Communication Van, a WEB page to get information about the TRW Amateur Radio Club out to the HAMS on the internet, and a new Internet connection in the S shack. Also Chris, WA2KDL, setup an Internet connection through packet radio so people with packet capability can get on Internet.

The Club is changing, it is getting involved in a wide range of communication areas and providing more support to TRW. Also we are trying to get more people involved in amateur radio through the TRW Amateur Radio Club's weekly NET (AKA "The Bob and Who Show") and Byran DeAro's No-code Technician class which has a great success record of getting new amateurs their first Amateur Radio license. Also this year we are arranging to assist some local students in making a contact with the Shuttle, which we hope will spark their interest in radio communications and Amateur Radio. We have also moved the location of the monthly club meeting to Cathy's Deli, we had our first meeting there in March and it worked out great. We hope to see more club members at the monthly club meetings, it is a great place.

We will be doing a lot of fun things and I would like to see as many amateurs as possible join in and experience the good times the Club has and the sense of accomplishment we share at providing a new service to club members. I invite everyone to provide suggestions on other things that we might be doing that would be interesting for an amateur radio club to get involved in. This year communication with the Club officers will be easier through E-mail and Internet. Communication is what this club is all about. We are trying new ways to keep every member of the club informed on what the club is doing, watch for club E-mail! That is why we have asked for your E-mail addresses this year, so we can keep you better informed on Club activities.

As the TRW ARC President I hope everyone has a very good year and really enjoys amateur radio.

W6TRW Calendar

April 1996:

Tuesday, Apr 2	5:30 pm	Executive Board Meeting E2/1200 (All Club Members are invited)
Tuesday, Apr 9	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Tuesday, Apr 9	5:30 pm	Club Meeting Cathy's Deli, 1828 Manhattan Bch Blvd (next to Tomboy's)
Friday, Apr 19	12:00 noon	Technical Chairman's Meeting Building S Hamshack
Tuesday, Apr 23	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Saturday, Apr 27	7:00 am	TRW/ARC Swap Meet Marine and Aviation (Northeast Corner)
Saturday, Apr 27	12:00 noon	T-Hunt Swap Meet Parking Lot - 144.72 MHz

May 1996:

Tuesday, May 7	5:30 pm	Executive Board Meeting E2/1200 (All Club Members are invited)
Tuesday, May 14	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Tuesday, May 14	5:30 pm	Club Meeting Cathy's Deli, 1828 Manhattan Bch Blvd (next to Tomboy's)
Friday, May 17	12:00 noon	Technical Chairman's Meeting Building S Hamshack
Tuesday, May 28	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Saturday, May 25	7:00 am	TRW/ARC Swap Meet Marine and Aviation (Northeast Corner)
Saturday, May 25	12:00 noon	T-Hunt Swap Meet Parking Lot - 144.72 MHz

Reoccurring Events:

Every Monday Night (Except the 1st & Holidays)	7:30 pm	Disaster Communication Systems (DCS) Net DCS Members: Check in on 2 Meter Repeater
Every Thursday Night	6:30 pm	TRW Amateur Radio Club Net The Bob and ? Show - Check In on 2 Meter Repeater
Every Friday Morning	7:30 am	TRW Amateur Radio Club Breakfast Building S Cafeteria - Everyone is invited Talk-in on 2 Meters

PACKET CHATTER by Ellen, N6XJM

In May of this year a Packet Radio/Internet Gateway was set up by W6TRW and is now on the air. You can access this system with any old packet AX25 software and send packets not only to a PACKET BBS but also EMAIL to any internet address such as CompuServe, America On-Line etc. In addition to the above, you will be able to connect to the world wide conference bridge and digitally communicate with hams around the world, in real time.

W6TRW sits on 146.745 - 600; QTH is Redondo Beach. If you think you can connect directly, type the following:

- C W6TRW-3 enters the system for sending packets, email, convers connects and other systems capabilities
- C W6TRW-6 gets you directly into Converse

ONCE CONNECTED TO W6TRW HIT <ENTER> OR NOTHING WILL HAPPEN !!!!

If you are unable to connect DIRECT, type the following from your local NODE, provided your NODE can hear W6TRW. (Frequency is NOT an issue in this mode)

- C (port #) W6TRW-3 or
- C (port #) W6TRW-6
 (If you don't know what your NODE's port #'s are, type P at the prompt for port # info and use the port # for 9600 baud. I.E. c 5 w6trw-3).

If you have telnet capabilities type:

- t 44.16.0.137 to the systems prompts
- TT W6TRW C into Converse

If you require more details or need help, you can contact me as follows: (or of course you can always catch me on the repeater too).

- PBBS: N6XJM@WB6YMH.#SOCA.CA.USA.NA
- email: ellen.tessitore@trw.com
- Mailbox on 145.360 n6xjm-3 (When connected hit ENTER. At the prompt type: sp n6xjm and leave a msg)
- Or connect to me live. My system is up most evenings on 145.360. Type:c n6xjm-3. After you connect hit ENTER. At the prompt type O for Operator. (CTRL+T gets you out of chat mode and back to prompts).

(Please note: I know NOTHING about hardware, or the VARIOUS software packages on the market but if you have a packet station hooked up and working, I can help with basic packet transactions, various capabilities and JNOS (TCP/IP)).

73see you on packet !!!

HF Propagation

I've been exploring the Internet at home lately and have found some items of interest to amateurs. HF propagation predictions can be found at <http://www.sec.noaa.gov>. The latest solar information and short term predictions are found here. There are even color photos of the active regions of the sun for those interested. I've included printouts of this home page as well as a sample propagation prediction. As the new solar cycle begins this information will be useful in predicting openings for the higher bands.

de KJ6GR



The Space Environment Center (SEC) provides real-time monitoring and forecasting of solar and geophysical events, conducts research in solar-terrestrial physics, and develops techniques for forecasting solar and geophysical disturbances. SEC's parent organization is the National Oceanic and Atmospheric Administration (NOAA). SEC is one of NOAA's 11 Environmental Research Laboratories (ERL) and one of NOAA's 7 National Centers for Environmental Prediction (NCEP). SEC's Space Weather Operations is jointly operated by NOAA and the U.S. Air Force and is the national and world warning center for disturbances that can affect people and equipment working in the space environment.

On-Line Solar-Terrestrial Data



Tailored Space Weather Products



General Information



On-Line Solar-Terrestrial Data: [Today's Space Weather] [Solar Images] [Gopher Server] [Real-Time Solar Wind]

Tailored Space Weather Products: [Coordinated Solar Obs.] [Forecast Evaluation] [IUWDS] [Navigation Systems] [Radio Users]

General Information: [What's New at SEC] [Explanations and Information] [Other Sources of Data] [Comments and Contacts]

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
 SDF NUMBER 063 ISSUED AT 2200Z ON 03 MAR 1996
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z
 TO 03/2100Z: SOLAR ACTIVITY WAS VERY LOW. THERE WAS NO ACTIVITY
 OF NOTE. THE VISIBLE DISK REMAINS SPOTLESS.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
 VERY LOW.
 IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z:
 THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED
 LEVELS FOR THE PAST 24 HOURS.
 IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
 EXPECTED TO BE MOSTLY QUIET FOR THE ENTIRE FORECAST PERIOD.
 III. EVENT PROBABILITIES 04 MAR-06 MAR
 CLASS M 01/01/01
 CLASS X 01/01/01
 PROTON 01/01/01
 PCAF GREEN
 IV. PENTICTON 10.7 CM FLUX
 OBSERVED 03 MAR 070
 PREDICTED 04 MAR-06 MAR 070/070/070
 90 DAY MEAN 03 MAR 073
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR/AP 02 MAR 004/003
 ESTIMATED AFR/AP 03 MAR 007/005
 PREDICTED AFR/AP 04 MAR-06 MAR 005/005-005/005-005/005
 VI. GEOMAGNETIC ACTIVITY PROBABILITIES 04 MAR-06 MAR
 A. MIDDLE LATITUDES
 ACTIVE 10/05/05
 MINOR STORM 05/05/05
 MAJOR-SEVERE STORM 01/01/01
 B. HIGH LATITUDES
 ACTIVE 10/05/05
 MINOR STORM 05/05/05
 MAJOR-SEVERE STORM 01/01/01

Twenty-seven Day Outlook
 Issued 27 Feb 1996

UT Date	Radio Flux 10.7 cm	Planetary A Index	Largest Kp Index
28 Feb 96	72	8	3
29 Feb 96	72	8	3
01 Mar 96	72	5	2
02 Mar 96	72	5	2
03 Mar 96	72	5	2
04 Mar 96	70	5	2
05 Mar 96	70	5	2
06 Mar 96	70	5	2
07 Mar 96	70	5	2
08 Mar 96	70	8	3
09 Mar 96	70	10	3
10 Mar 96	70	15	3
11 Mar 96	70	15	3
12 Mar 96	70	10	3
13 Mar 96	70	8	3
14 Mar 96	70	8	3
15 Mar 96	70	8	3
16 Mar 96	70	8	3
17 Mar 96	70	5	2
18 Mar 96	72	5	2
19 Mar 96	72	5	2
20 Mar 96	72	5	2
21 Mar 96	74	10	3
22 Mar 96	74	12	3
23 Mar 96	72	15	3
24 Mar 96	72	12	3
25 Mar 96	72	10	3

SUNSPOTS TURN UP MISSING

Keep those low-band antennas up! Solar seer Tad Cook, KT7H, reports solar activity continues to be *extremely* low, with extended periods of no sunspots at all. "It looks like 1996 will certainly be the year of the quiet sun for cycle 22," said Cook. Current projections show the sunspot minima (ie, numbers of sunspots observed) will occur this year, with the minimum solar flux still a year off. After the minimum, activity should begin to move upward rapidly, and even 10 meters could be exciting again in a few years, he said.

Current 80 and 160-meter conditions are good, especially with the quiet geomagnetic conditions we are experiencing. Conditions on the higher bands should improve soon because of seasonal variations as we head into spring, and not because of solar activity.

Flux levels should be back up to 75 by the third week of March, after leveling off around 70 earlier in the month. Quiet geomagnetic conditions should prevail, but some moderate disturbances are possible March 10, 11 and 23.

1996 ARRL AND TAPR DIGITAL CONFAB SET

Mark your calendars and make plans now to attend the year's premier Amateur Radio digital communications event. The 1996 ARRL and TAPR Digital Communications Conference is set for September 20-22, 1996, in Seattle, Washington—just minutes from the SeaTac Airport. This marks the first time the ARRL Digital Communications Conference and TAPR Annual General Meeting have joined into one conference. Local sponsors include the Puget Sound Amateur Radio TCP/IP Group and Boeing Employees Amateur Radio Society (BEARS).

This international forum is for hams and experts in digital communications, networking and related technologies to meet, publish their work and present new ideas and techniques for discussion. Presenters and those attending have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results and practical applications.

Papers are invited for publication in the conference proceedings. Presentation at the conference is not required for publication. Send papers by July 23, 1996 to Maty Weinberg, ARRL, 225 Main St, Newington, CT 06111 USA or via the Internet at lweinberg@arrrl.org. Maty has details on format requirements.

ARRL and TAPR especially welcome papers from full-time students to compete for the first annual student papers award. Two \$500 travel awards will be presented for best technical/theory-oriented paper by a student and for best educational or community-oriented application paper by a student. Papers should relate directly to a wireless digital communication topic. Papers co-authored by educators or telecommunications professionals also are eligible for this award, as long as a student is the first author. First-year awards have been funded through a grant by The ARRL Foundation Inc. The deadline for completed student paper manuscripts is June 11 (please note this date is earlier than the deadline for general papers).

For full details and paper guidelines, contact TAPR (see below) or check <http://www.tapr.org> on the World Wide Web.

Workshop presentations include Keith Sproul, WU2Z, on APRS packet-location software; Dwayne Hendricks, WA8DZP, on "How to Utilize Part 15 Radios for Ham Applications," and a workshop on Wireless Networking using WA4DSY 56K RF modem technology and its accessories.

For more information on the conference, registration, and hotel reservations, contact TAPR, 8987-309 E Tanque Verde Rd, No. 337, Tucson, AZ 85749-9399, tel 817-383-0000; fax 817-566-2544; e-mail tapr@tapr.org.

The ARRL Letter March 8, 1996

For Sale: Yaesu FT-1000D, IRC slow tuning board, 600 Hz filter in sub-Rcvr, SP-5 matching speaker. \$2750. Bill, KJ6GR (310) 542-9899 after 6pm.

For Sale: RF Concepts 70 cm. 10/100 watt power amplifier with preamp. \$250. Bill, KJ6GR (310) 542-9899 after 6pm.